

WEST Search History for Application 10577322

Creation Date: 2008080615:24

Query	DB	Op.	Plur.	Thes.	Date
(rare earth or sc or scandium or y or ytterium or la or lanthan\$ or ce or cerium or pr or praseodymium or nd or neodymium or pm or promethium or sm or samarium or eu or europium or gd or gadolinium or tb or terbium or dy or dysprosium or ho or holmium or er or erbium or tm or thulium or yb or ytterbium or lu or lut\$ium) with (\$cuo4 or cuprate or \$cu3\$so6)	EPAB, JPAB, DWPI	ADJ	YES		08-06-2008
(rare earth or sc or scandium or y or ytterium or la or lanthan\$ or ce or cerium or pr or praseodymium or nd or neodymium or pm or promethium or sm or samarium or eu or europium or gd or gadolinium or tb or terbium or dy or dysprosium or ho or holmium or er or erbium or tm or thulium or yb or ytterbium or lu or lut\$ium) with (\$mno3 or \$cro3)	EPAB, JPAB, DWPI	ADJ	YES		08-06-2008
(rare earth or sc or scandium or y or ytterium or la or lanthan\$ or ce or cerium or pr or praseodymium or nd or neodymium or pm or promethium or sm or samarium or eu or europium or gd or gadolinium or tb or terbium or dy or dysprosium or ho or holmium or er or erbium or tm or thulium or yb or ytterbium or lu or lut\$ium) with (mangante or chromate or mn or manganese or cr or chromium) with (perovskite or \$o3)	EPAB, JPAB, DWPI	ADJ	YES		08-06-2008
(rare earth or sc or scandium or y or ytterium or la or lanthan\$ or ce or cerium or pr or praseodymium or nd or neodymium or pm or promethium or sm or samarium or eu or europium or gd or gadolinium or tb or terbium or dy or dysprosium or ho or holmium or er or erbium or tm or thulium or yb or ytterbium or lu or lut\$ium) with (manganate) with (perovskite or \$o3)	EPAB, JPAB, DWPI	ADJ	YES		08-06-2008
(rare earth or sc or scandium or y or ytterium or la or lanthan\$ or ce or cerium or pr or praseodymium or nd or neodymium or pm or promethium or sm or samarium or eu or europium or gd or gadolinium or tb or terbium or dy or dysprosium or ho or holmium or er or erbium or tm or thulium or yb or ytterbium or lu or lut\$ium) with (al or aluminate or aluminum) with (perovskite or \$o3)	EPAB, JPAB, DWPI	ADJ	YES		08-06-2008
(rare earth or sc or scandium or y or ytterium or la or lanthan\$ or ce or cerium or pr or praseodymium or nd or neodymium or pm or promethium or sm or samarium or eu or europium or gd or gadolinium or tb or terbium or dy or	EPAB, JPAB, DWPI	ADJ	YES		08-06-2008

dysprosium or ho or holmium or er or erbium or tm or thulium or yb or ytterbium or lu or lutetium) with \$alo3					
sc\$cuo4 or y\$cuo4 or la\$cuo4 or ce\$cuo4 or pr\$cuo4 or nd\$cuo4 or pm\$cuo4 or sm\$cuo4 or eu\$cuo4 or gd\$cuo4 or tb\$cuo4 or dy\$cuo4 or ho\$cuo4 or er\$cuo4 or tm\$cuo4 or yb\$cuo4 or lu\$cuo4 or \$sc\$cu\$06 or \$y\$cu\$06 or \$la\$cu\$06 or \$ce\$cu\$06 or \$pr\$cu\$06 or \$nd\$cu\$06 or \$pm\$cu\$06 or \$sm\$cu\$06 or \$eu\$cu\$06 or \$gd\$cu\$06 or \$tb\$cu\$06 or \$dy\$cu\$06 or \$ho\$cu\$06 or \$er\$cu\$06 or \$tm\$cu\$06 or \$yb\$cu\$06 or \$lu\$cu\$06	EPAB, JPAB, DWPI	ADJ	YES		08-06-2008
sc\$mno3 or y\$mno3 or la\$mno3 or ce\$mno3 or pr\$mno3 or nd\$mno3 or pm\$mno3 or sm\$mno3 or eu\$mno3 or gd\$mno3 or tb\$mno3 or dy\$mno3 or ho\$mno3 or er\$mno3 or tm\$mno3 or yb\$mno3 or lu\$mno3 or sc\$cro3 or y\$cro3 or la\$cro3 or ce\$cro3 or pr\$cro3 or nd\$cro3 or pm\$cro3 or sm\$cro3 or eu\$cro3 or gd\$cro3 or tb\$cro3 or dy\$cro3 or ho\$cro3 or er\$cro3 or tm\$cro3 or yb\$cro3 or lu\$cro3	EPAB, JPAB, DWPI	ADJ	YES		08-06-2008
sc\$alo3 or y\$alo3 or la\$alo3 or ce\$alo3 or pr\$alo3 or nd\$alo3 or pm\$alo3 or sm\$alo3 or eu\$alo3 or gd\$alo3 or tb\$alo3 or dy\$alo3 or ho\$alo3 or er\$alo3 or tm\$alo3 or yb\$alo3 or lu\$alo3	EPAB, JPAB, DWPI	ADJ	YES		08-06-2008
((rare earth or sc or scandium or y or ytterbium or la or lanthan\$ or ce or cerium or pr or praseodymium or nd or neodymium or pm or promethium or sm or samarium or eu or europium or gd or gadolinium or tb or terbium or dy or dysprosium or ho or holmium or er or erbium or tm or thulium or yb or ytterbium or lu or lutetium) with (\$cuo4 or cuprate or \$cu3\$06)) or (sc\$cuo4 or y\$cuo4 or la\$cuo4 or ce\$cuo4 or pr\$cuo4 or nd\$cuo4 or pm\$cuo4 or sm\$cuo4 or eu\$cuo4 or gd\$cuo4 or tb\$cuo4 or dy\$cuo4 or ho\$cuo4 or er\$cuo4 or tm\$cuo4 or yb\$cuo4 or lu\$cuo4 or \$sc\$cu\$06 or \$y\$cu\$06 or \$la\$cu\$06 or \$ce\$cu\$06 or \$pr\$cu\$06 or \$nd\$cu\$06 or \$pm\$cu\$06 or \$sm\$cu\$06 or \$eu\$cu\$06 or \$gd\$cu\$06 or \$tb\$cu\$06 or \$dy\$cu\$06 or \$ho\$cu\$06 or \$er\$cu\$06 or \$tm\$cu\$06 or \$yb\$cu\$06 or \$lu\$cu\$06)	EPAB, JPAB, DWPI	ADJ	YES		08-06-2008
((rare earth or sc or scandium or y or ytterbium or la or lanthan\$ or ce or cerium or pr or praseodymium or nd or neodymium or pm or promethium or sm or samarium or eu or europium or gd or gadolinium or tb or terbium or dy or dysprosium or ho or holmium or er or erbium or tm or thulium or yb or ytterbium or lu or lutetium) with (\$mno3 or \$cro3)) or ((rare earth or sc or scandium or y or ytterbium or la or lanthan\$ or ce or cerium or pr or praseodymium or nd or neodymium or pm or promethium or sm or samarium or eu or europium or gd or gadolinium or tb or terbium or dy or dysprosium or ho or holmium or er or erbium or tm or thulium or yb or ytterbium or lu or lutetium) with (mangante	EPAB, JPAB, DWPI	ADJ	YES		08-06-2008

or chromate or mn or manganese or cr or chromium) with (perovskite or \$o3)) or ((rare earth or sc or scandium or y or ytterium or la or lanthan\$ or ce or cerium or pr or praseodymium or nd or neodymium or pm or promethium or sm or samarium or eu or europium or gd or gadolinium or tb or terbium or dy or dysprosium or ho or holmium or er or erbium or tm or thulium or yb or ytterbium or lu or lut\$ium) with (manganate) with (perovskite or \$o3)) or (sc\$mnno3 or y\$mnno3 or la\$mnno3 or ce\$mnno3 or pr\$mnno3 or nd\$mnno3 or pm\$mnno3 or sm\$mnno3 or eu\$mnno3 or gd\$mnno3 or tb\$mnno3 or dy\$mnno3 or ho\$mnno3 or er\$mnno3 or tm\$mnno3 or yb\$mnno3 or lu\$mnno3 or sc\$cro3 or y\$cro3 or la\$cro3 or ce\$cro3 or pr\$cro3 or nd\$cro3 or pm\$cro3 or sm\$cro3 or eu\$cr3 or gd\$cro3 or tb\$cro3 or dy\$cro3 or ho\$cro3 or er\$cro3 or tm\$cro3 or yb\$cro3 or lu\$cro3)					
((rare earth or sc or scandium or y or ytterium or la or lanthan\$ or ce or cerium or pr or praseodymium or nd or neodymium or pm or promethium or sm or samarium or eu or europium or gd or gadolinium or tb or terbium or dy or dysprosium or ho or holmium or er or erbium or tm or thulium or yb or ytterbium or lu or lut\$ium) with \$alo3) or ((rare earth or sc or scandium or y or ytterium or la or lanthan\$ or ce or cerium or pr or praseodymium or nd or neodymium or pm or promethium or sm or samarium or eu or europium or gd or gadolinium or tb or terbium or dy or dysprosium or ho or holmium or er or erbium or tm or thulium or yb or ytterbium or lu or lut\$ium) with (al or aluminate or aluminum) with (perovskite or \$o3)) or (sc\$alo3 or y\$alo3 or la\$alo3 or ce\$alo3 or pr\$alo3 or nd\$alo3 or pm\$alo3 or sm\$alo3 or eu\$alo3 or gd\$alo3 or tb\$alo3 or dy\$alo3 or ho\$alo3 or er\$alo3 or tm\$alo3 or yb\$alo3 or lu\$alo3)	EPAB, JPAB, DWPI	ADJ	YES		08-06-2008
((rare earth or sc or scandium or y or ytterium or la or lanthan\$ or ce or cerium or pr or praseodymium or nd or neodymium or pm or promethium or sm or samarium or eu or europium or gd or gadolinium or tb or terbium or dy or dysprosium or ho or holmium or er or erbium or tm or thulium or yb or ytterbium or lu or lut\$ium) with (\$cuo4 or cuprate or \$cu3\$so6) or sc\$cuo4 or y\$cuo4 or la\$cuo4 or ce\$cuo4 or pr\$cuo4 or nd\$cuo4 or pm\$cuo4 or sm\$cuo4 or eu\$cuo4 or gd\$cuo4 or tb\$cuo4 or dy\$cuo4 or ho\$cuo4 or er\$cuo4 or tm\$cuo4 or yb\$cuo4 or lu\$cuo4 or \$sc\$cu\$so6 or \$y\$cu\$so6 or \$la\$cu\$so6 or \$ce\$cu\$so6 or \$pr\$cu\$so6 or \$nd\$cu\$so6 or \$pm\$cu\$so6 or \$sm\$cu\$so6 or \$eu\$cu\$so6 or \$gd\$cu\$so6 or \$tb\$cu\$so6 or \$dy\$cu\$so6 or \$ho\$cu\$so6 or \$er\$cu\$so6 or \$tm\$cu\$so6 or \$yb\$cu\$so6 or \$lu\$cu\$so6) and (el or electro\$luminesc\$)	EPAB, JPAB, DWPI	ADJ	YES		08-06-2008
(\$mno?sub.3 or \$cro?sub.3) with (el.u/c. or electroluminesc\$)	PGPB, USPT	ADJ	YES		08-06-2008

(\$mno?sub.3 or \$cro?sub.3) and (el.u/c. or electroluminesc\$)	PGPB, USPT	ADJ	YES		08-06-2008
(\$cuo?sub.4 or \$cu?sub.3O.sub.6 or (\$cu?sub.3 o?sub.6)) and (el.u/c. or electroluminesc\$)	PGPB, USPT	ADJ	YES		08-06-2008
(\$cuo?sub.4 or \$cu?sub.3O.sub.6 or (\$cu?sub.3 o?sub.6)) and (\$luminesc\$ or phosphor or phosphoresc\$ or fluoresc\$)	PGPB, USPT	ADJ	YES		08-06-2008
\$alo?sub.3 and (el.u/c. or electroluminesc\$)	PGPB, USPT	ADJ	YES		08-06-2008
(((\$cuo?sub.4 or \$cu?sub.3O.sub.6 or (\$cu?sub.3 o?sub.6)) and (\$luminesc\$ or phosphor or phosphoresc\$ or fluoresc\$)) not (\$alo?sub.3 and (el.u/c. or electroluminesc\$))	PGPB, USPT	ADJ	YES		08-06-2008
(((\$cuo?sub.4 or \$cu?sub.3O.sub.6 or (\$cu?sub.3 o?sub.6)) and (\$luminesc\$ or phosphor or phosphoresc\$ or fluoresc\$)) not (((\$cuo?sub.4 or \$cu?sub.3O.sub.6 or (\$cu?sub.3 o?sub.6)) and (el.u/c. or electroluminesc\$))	PGPB, USPT	ADJ	YES		08-06-2008
(((\$mno?sub.3 or \$cro?sub.3) and (el.u/c. or electroluminesc\$)) not ((((\$cuo?sub.4 or \$cu?sub.3O.sub.6 or (\$cu?sub.3 o?sub.6)) and (\$luminesc\$ or phosphor or phosphoresc\$ or fluoresc\$)) or (((\$cuo?sub.4 or \$cu?sub.3O.sub.6 or (\$cu?sub.3 o?sub.6)) and (el.u/c. or electroluminesc\$)))	PGPB, USPT	ADJ	YES		08-06-2008
(\$alo?sub.3 and (el.u/c. or electroluminesc\$)) not ((((\$cuo?sub.4 or \$cu?sub.3O.sub.6 or (\$cu?sub.3 o?sub.6)) and (\$luminesc\$ or phosphor or phosphoresc\$ or fluoresc\$)) or (((\$cuo?sub.4 or \$cu?sub.3O.sub.6 or (\$cu?sub.3 o?sub.6)) and (el.u/c. or electroluminesc\$)) or (((\$mno?sub.3 or \$cro?sub.3) and (el.u/c. or electroluminesc\$)))	PGPB, USPT	ADJ	YES		08-06-2008
(el.u/c. or electroluminesc\$) and (\$mg\$alo?sub.3 or \$ca\$alo?sub.3 or \$sr\$alo?sub.3 or \$ba\$alo?sub.3 or \$li\$alo?sub.3 or \$na\$alo?sub.3 or \$k\$alo?sub.3 or \$rb\$alo?sub.3 or \$cs\$alo?sub.3)	PGPB, USPT	ADJ	YES		08-06-2008
(el.u/c. or electroluminesc\$) and (\$mg\$mno?sub.3 or \$ca\$mno?sub.3 or \$sr\$mno?sub.3 or \$ba\$mno?sub.3 or \$li\$mno?sub.3 or \$na\$mno?sub.3 or \$k\$mno?sub.3 or \$rb\$mno?sub.3 or \$cs\$mno?sub.3 or \$mg\$cro?sub.3 or \$ca\$cro?sub.3 or \$sr\$cro?sub.3 or \$ba\$cro?sub.3 or \$li\$cro?sub.3 or \$na\$cro?sub.3 or \$k\$cro?sub.3 or \$rb\$cro?sub.3 or \$cs\$cro?sub.3)	PGPB, USPT	ADJ	YES		08-06-2008
(el.u/c. or electroluminesc\$) and (\$ti\$mno?sub.3 or \$v\$mno?sub.3 or \$cr\$mno?sub.3 or \$fe\$mno?sub.3 or \$co\$mno?sub.3 or \$ni\$mno?sub.3 or \$cu\$mno?sub.3 or \$zn\$mno?sub.3 or \$ti\$cro?sub.3 or \$v\$cro?sub.3 or \$mn\$cro?sub.3 or \$fe\$cro?sub.3 or \$co\$cro?sub.3 or \$ni\$cro?sub.3 or \$cu\$cro?sub.3 or \$zn\$cro?sub.3)	PGPB, USPT	ADJ	YES		08-06-2008

(el.u/c. or electroluminesc) and (\$ti\$alo?sub.3 or \$v\$alo?sub.3 or \$cr\$alo?sub.3 or \$mn\$alo?sub.3 or \$fe\$alo?sub.3 or \$co\$alo?sub.3 or \$ni\$alo?sub.3 or \$cu\$alo?sub.3 or \$zn\$alo?sub.3)	PGPB, USPT	ADJ	YES		08-06-2008
((el.u/c. or electroluminesc) and (\$ti\$alo?sub.3 or \$v\$alo?sub.3 or \$cr\$alo?sub.3 or \$mn\$alo?sub.3 or \$fe\$alo?sub.3 or \$co\$alo?sub.3 or \$ni\$alo?sub.3 or \$cu\$alo?sub.3 or \$zn\$alo?sub.3)) or ((el.u/c. or electroluminesc) and (\$ti\$mnno?sub.3 or \$v\$mnno?sub.3 or \$cr\$mnno?sub.3 or \$fe\$mnno?sub.3 or \$co\$mnno?sub.3 or \$ni\$mnno?sub.3 or \$cu\$mnno?sub.3 or \$zn\$mnno?sub.3 or \$ti\$scro?sub.3 or \$v\$scro?sub.3 or \$mn\$scro?sub.3 or \$fe\$scro?sub.3 or \$co\$scro?sub.3 or \$ni\$scro?sub.3 or \$cu\$scro?sub.3 or \$zn\$scro?sub.3)) or ((el.u/c. or electroluminesc) and (\$mg\$mnno?sub.3 or \$ca\$mnno?sub.3 or \$sr\$mnno?sub.3 or \$ba\$mnno?sub.3 or \$li\$mnno?sub.3 or \$na\$mnno?sub.3 or \$k\$mnno?sub.3 or \$rb\$mnno?sub.3 or \$cs\$mnno?sub.3 or \$mg\$scro?sub.3 or \$ca\$scro?sub.3 or \$sr\$scro?sub.3 or \$ba\$scro?sub.3 or \$li\$scro?sub.3 or \$na\$scro?sub.3 or \$k\$scro?sub.3 or \$rb\$scro?sub.3 or \$cs\$scro?sub.3)) or ((el.u/c. or electroluminesc) and (\$mg\$alo?sub.3 or \$ca\$alo?sub.3 or \$sr\$alo?sub.3 or \$ba\$alo?sub.3 or \$li\$alo?sub.3 or \$na\$alo?sub.3 or \$k\$alo?sub.3 or \$rb\$alo?sub.3 or \$cs\$alo?sub.3))	PGPB, USPT	ADJ	YES		08-06-2008
(el or electrominesc) with ((ba or barium or alkali\$ earth or ca or calcium or sr or strontium or mg or magnesium) adj copper adj oxide)	EPAB, JPAB, DWPI	ADJ	YES		08-06-2008
(el or electro\$luminesc) with ((ba or barium or alkali\$ earth or ca or calcium or sr or strontium or mg or magnesium) adj copper adj oxide)	EPAB, JPAB, DWPI	ADJ	YES		08-06-2008
(el.u/c. or electro\$luminesc) with ((ba or barium or alkali\$ earth or ca or calcium or sr or strontium or mg or magnesium) adj copper adj oxide)	PGPB, USPT	ADJ	YES		08-06-2008
(\$alo?sub.3 and (el.u/c. or electroluminesc) not ((\$cuo?sub.4 or \$cu?sub.3O.sub.6 or (\$cu?sub.3 o?sub.6)) and (\$luminesc\$ or phosphor or phosphoresc\$ or fluoresc\$) or (\$cuo?sub.4 or \$cu?sub.3O.sub.6 or (\$cu?sub.3 o?sub.6)) and (el.u/c. or electroluminesc) or (\$mnno?sub.3 or \$scro?sub.3) and (el.u/c. or electroluminesc))) not ((el.u/c. or electroluminesc) and (\$ti\$alo?sub.3 or \$v\$alo?sub.3 or \$cr\$alo?sub.3 or \$mn\$alo?sub.3 or \$fe\$alo?sub.3 or \$co\$alo?sub.3 or \$ni\$alo?sub.3 or \$cu\$alo?sub.3 or \$zn\$alo?sub.3) or (el.u/c. or electroluminesc) and (\$ti\$mnno?sub.3 or \$v\$mnno?sub.3 or \$cr\$mnno?sub.3 or \$fe\$mnno?sub.3 or \$co\$mnno?sub.3 or \$ni\$mnno?sub.3 or \$cu\$mnno?sub.3 or \$zn\$mnno?sub.3 or \$ti\$scro?sub.3 or \$v\$scro?sub.3 or \$mn\$scro?sub.3 or \$fe\$scro?sub.3 or	PGPB, USPT	ADJ	YES		08-06-2008

<p>\$co\$cro?sub.3 or \$ni\$cro?sub.3 or cu\$cro?sub.3 or \$zn\$cro?sub.3) or (el.u/c. or electrolumines\$) and (\$mg\$mno?sub.3 or \$ca\$mno?sub.3 or \$sr\$mno?sub.3 or \$ba\$mno?sub.3 or \$li\$mno?sub.3 or \$na\$mno?sub.3 or \$k\$mno?sub.3 or \$rb\$mno?sub.3 or \$cs\$mno?sub.3 or \$mg\$cro?sub.3 or \$ca\$cro?sub.3 or \$sr\$cro?sub.3 or \$ba\$cro?sub.3 or \$li\$cro?sub.3 or \$na\$cro?sub.3 or \$k\$cro?sub.3 or \$rb\$cro?sub.3 or \$cs\$cro?sub.3) or (el.u/c. or electrolumines\$) and (\$mg\$alo?sub.3 or \$ca\$alo?sub.3 or \$sr\$alo?sub.3 or \$ba\$alo?sub.3 or \$li\$alo?sub.3 or \$na\$alo?sub.3 or \$k\$alo?sub.3 or \$rb\$alo?sub.3 or \$cs\$alo?sub.3))</p>					
<p>((mno?sub.3 or cro?sub.3) and (el.u/c. or electrolumines\$) not ((\$cuo?sub.4 or \$cu?sub.3O.sub.6 or (\$cu?sub.3 o?sub.6)) and (\$luminesc\$ or phosphor or phosphoresc\$ or fluoresc\$) or (\$cuo?sub.4 or \$cu?sub.3O.sub.6 or (\$cu?sub.3 o?sub.6)) and (el.u/c. or electrolumines\$))) not ((el.u/c. or electrolumines\$) and (\$ti\$alo?sub.3 or \$v\$alo?sub.3 or \$cr\$alo?sub.3 or \$mn\$alo?sub.3 or \$fe\$alo?sub.3 or \$co\$alo?sub.3 or \$ni\$alo?sub.3 or \$cu\$alo?sub.3 or \$zn\$alo?sub.3) or (el.u/c. or electrolumines\$) and (\$ti\$mno?sub.3 or \$v\$mno?sub.3 or \$cr\$mno?sub.3 or \$fe\$mno?sub.3 or \$co\$mno?sub.3 or \$ni\$mno?sub.3 or \$cu\$mno?sub.3 or \$zn\$mno?sub.3 or \$ti\$cro?sub.3 or \$v\$cro?sub.3 or \$mn\$cro?sub.3 or \$fe\$cro?sub.3 or \$co\$cro?sub.3 or \$ni\$cro?sub.3 or cu\$cro?sub.3 or \$zn\$cro?sub.3) or (el.u/c. or electrolumines\$) and (\$mg\$mno?sub.3 or \$ca\$mno?sub.3 or \$sr\$mno?sub.3 or \$ba\$mno?sub.3 or \$li\$mno?sub.3 or \$na\$mno?sub.3 or \$k\$mno?sub.3 or \$rb\$mno?sub.3 or \$cs\$mno?sub.3 or \$mg\$cro?sub.3 or \$ca\$cro?sub.3 or \$sr\$cro?sub.3 or \$ba\$cro?sub.3 or \$li\$cro?sub.3 or \$na\$cro?sub.3 or \$k\$cro?sub.3 or \$rb\$cro?sub.3 or \$cs\$cro?sub.3) or (el.u/c. or electrolumines\$) and (\$mg\$alo?sub.3 or \$ca\$alo?sub.3 or \$sr\$alo?sub.3 or \$ba\$alo?sub.3 or \$li\$alo?sub.3 or \$na\$alo?sub.3 or \$k\$alo?sub.3 or \$rb\$alo?sub.3 or \$cs\$alo?sub.3))</p>	PGPB, USPT	ADJ	YES		08-06-2008
<p>(((mno?sub.3 or cro?sub.3) and (el.u/c. or electrolumines\$) not ((\$cuo?sub.4 or \$cu?sub.3O.sub.6 or (\$cu?sub.3 o?sub.6)) and (\$luminesc\$ or phosphor or phosphoresc\$ or fluoresc\$) or (\$cuo?sub.4 or \$cu?sub.3O.sub.6 or (\$cu?sub.3 o?sub.6)) and (el.u/c. or electrolumines\$))) not (el.u/c. or electrolumines\$) and (\$ti\$alo?sub.3 or \$v\$alo?sub.3 or \$cr\$alo?sub.3 or \$mn\$alo?sub.3 or \$fe\$alo?sub.3 or \$co\$alo?sub.3 or \$ni\$alo?sub.3 or \$cu\$alo?sub.3 or \$zn\$alo?sub.3) or (el.u/c. or electrolumines\$) and (\$ti\$mno?sub.3 or \$v\$mno?sub.3 or \$cr\$mno?sub.3 or \$fe\$mno?sub.3 or \$co\$mno?sub.3 or \$ni\$mno?sub.3 or \$cu\$mno?sub.3 or \$zn\$mno?sub.3 or</p>	PGPB, USPT	ADJ	YES		08-06-2008

<p> \$ti\$cro?sub.3 or \$v\$cro?sub.3 or \$mn\$cro?sub.3 or \$fe\$cro?sub.3 or \$co\$cro?sub.3 or \$ni\$cro?sub.3 or cu\$cro?sub.3 or \$zn\$cro?sub.3) or (el.u/c. or electrolumines\$) and (\$mg\$mn?sub.3 or \$ca\$mn?sub.3 or \$sr\$mn?sub.3 or \$ba\$mn?sub.3 or \$li\$mn?sub.3 or \$na\$mn?sub.3 or \$k\$mn?sub.3 or \$rb\$mn?sub.3 or \$cs\$mn?sub.3 or \$mg\$cro?sub.3 or \$ca\$cro?sub.3 or \$sr\$cro?sub.3 or \$ba\$cro?sub.3 or \$li\$cro?sub.3 or \$na\$cro?sub.3 or \$k\$cro?sub.3 or \$rb\$cro?sub.3 or \$cs\$cro?sub.3) or (el.u/c. or electrolumines\$) and (\$mg\$alo?sub.3 or \$ca\$alo?sub.3 or \$sr\$alo?sub.3 or \$ba\$alo?sub.3 or \$li\$alo?sub.3 or \$na\$alo?sub.3 or \$k\$alo?sub.3 or \$rb\$alo?sub.3 or \$cs\$alo?sub.3)) or (\$alo?sub.3 and (el.u/c. or electrolumines\$) not ((\$cuo?sub.4 or \$cu?sub.3O.sub.6 or (\$cu?sub.3 o?sub.6)) and (\$luminesc\$ or phosphor or phosphoresc\$ or fluoresc\$) or (\$cuo?sub.4 or \$cu?sub.3O.sub.6 or (\$cu?sub.3 o?sub.6)) and (el.u/c. or electroluminesc\$) or (\$mn?sub.3 or \$cro?sub.3) and (el.u/c. or electroluminesc\$)) not (el.u/c. or electrolumines\$) and (\$ti\$alo?sub.3 or \$v\$alo?sub.3 or \$cr\$alo?sub.3 or \$mn\$alo?sub.3 or \$fe\$alo?sub.3 or \$co\$alo?sub.3 or \$ni\$alo?sub.3 or \$cu\$alo?sub.3 or \$zn\$alo?sub.3) or (el.u/c. or electrolumines\$) and (\$ti\$mn?sub.3 or \$v\$mn?sub.3 or \$cr\$mn?sub.3 or \$fe\$mn?sub.3 or \$co\$mn?sub.3 or \$ni\$mn?sub.3 or \$cu\$mn?sub.3 or \$zn\$mn?sub.3 or \$ti\$cro?sub.3 or \$v\$cro?sub.3 or \$mn\$cro?sub.3 or \$fe\$cro?sub.3 or \$co\$cro?sub.3 or \$ni\$cro?sub.3 or cu\$cro?sub.3 or \$zn\$cro?sub.3) or (el.u/c. or electrolumines\$) and (\$mg\$mn?sub.3 or \$ca\$mn?sub.3 or \$sr\$mn?sub.3 or \$ba\$mn?sub.3 or \$li\$mn?sub.3 or \$na\$mn?sub.3 or \$k\$mn?sub.3 or \$rb\$mn?sub.3 or \$cs\$mn?sub.3 or \$mg\$cro?sub.3 or \$ca\$cro?sub.3 or \$sr\$cro?sub.3 or \$ba\$cro?sub.3 or \$li\$cro?sub.3 or \$na\$cro?sub.3 or \$k\$cro?sub.3 or \$rb\$cro?sub.3 or \$cs\$cro?sub.3) or (el.u/c. or electrolumines\$) and (\$mg\$alo?sub.3 or \$ca\$alo?sub.3 or \$sr\$alo?sub.3 or \$ba\$alo?sub.3 or \$li\$alo?sub.3 or \$na\$alo?sub.3 or \$k\$alo?sub.3 or \$rb\$alo?sub.3 or \$cs\$alo?sub.3))) and ((\$mn?sub.3 or cro?sub.3 or \$alo?sub.3) with (mg or magnesium)) </p>					
<p> (((\$mn?sub.3 or \$cro?sub.3) and (el.u/c. or electroluminesc\$) not ((\$cuo?sub.4 or \$cu?sub.3O.sub.6 or (\$cu?sub.3 o?sub.6)) and (\$luminesc\$ or phosphor or phosphoresc\$ or fluoresc\$) or (\$cuo?sub.4 or \$cu?sub.3O.sub.6 or (\$cu?sub.3 o?sub.6)) and (el.u/c. or electroluminesc\$)) not (el.u/c. or electrolumines\$) and (\$ti\$alo?sub.3 or \$v\$alo?sub.3 or \$cr\$alo?sub.3 or \$mn\$alo?sub.3 or \$fe\$alo?sub.3 or \$co\$alo?sub.3 or \$ni\$alo?sub.3 or \$cu\$alo?sub.3 or \$zn\$alo?sub.3) or (el.u/c. or electrolumines\$) and (\$ti\$mn?sub.3 or \$v\$mn?sub.3 or </p>	PGPB, USPT	ADJ	YES		08-06-2008

<p> \$cr\$mnno?sub.3 or \$fe\$mnno?sub.3 or \$co\$mnno?sub.3 or \$ni\$mnno?sub.3 or \$cu\$mnno?sub.3 or \$zn\$mnno?sub.3 or \$ti\$cro?sub.3 or \$v\$cro?sub.3 or \$mn\$cro?sub.3 or \$fe\$cro?sub.3 or \$co\$cro?sub.3 or \$ni\$cro?sub.3 or cu\$cro?sub.3 or \$zn\$cro?sub.3) or (el.u/c. or electrolumines\$) and (\$mg\$mnno?sub.3 or \$ca\$mnno?sub.3 or \$sr\$mnno?sub.3 or \$ba\$mnno?sub.3 or \$li\$mnno?sub.3 or \$na\$mnno?sub.3 or \$k\$mnno?sub.3 or \$rb\$mnno?sub.3 or \$cs\$mnno?sub.3 or \$mg\$cro?sub.3 or \$ca\$cro?sub.3 or \$sr\$cro?sub.3 or \$ba\$cro?sub.3 or \$li\$cro?sub.3 or \$na\$cro?sub.3 or \$k\$cro?sub.3 or \$rb\$cro?sub.3 or \$cs\$cro?sub.3) or (el.u/c. or electrolumines\$) and (\$mg\$alo?sub.3 or \$ca\$alo?sub.3 or \$sr\$alo?sub.3 or \$ba\$alo?sub.3 or \$li\$alo?sub.3 or \$na\$alo?sub.3 or \$k\$alo?sub.3 or \$rb\$alo?sub.3 or \$cs\$alo?sub.3)) or (\$alo?sub.3 and (el.u/c. or electroluminesc\$) not ((c\$uo?sub.4 or \$cu?sub.3O.sub.6 or (\$cu?sub.3 o?sub.6)) and (\$luminesc\$ or phosphor or phosphoresc\$ or fluorese\$) or (\$cu?sub.4 or \$cu?sub.3O.sub.6 or (\$cu?sub.3 o?sub.6)) and (el.u/c. or electroluminesc\$) or (\$mnno?sub.3 or \$cro?sub.3) and (el.u/c. or electroluminesc\$)) not (el.u/c. or electrolumines\$) and (\$ti\$alo?sub.3 or \$v\$alo?sub.3 or \$cr\$alo?sub.3 or \$mn\$alo?sub.3 or \$fe\$alo?sub.3 or \$co\$alo?sub.3 or \$ni\$alo?sub.3 or \$cu\$alo?sub.3 or \$zn\$alo?sub.3) or (el.u/c. or electrolumines\$) and (\$ti\$mnno?sub.3 or \$v\$mnno?sub.3 or \$cr\$mnno?sub.3 or \$fe\$mnno?sub.3 or \$co\$mnno?sub.3 or \$ni\$mnno?sub.3 or \$cu\$mnno?sub.3 or \$zn\$mnno?sub.3 or \$ti\$cro?sub.3 or \$v\$cro?sub.3 or \$mn\$cro?sub.3 or \$fe\$cro?sub.3 or \$co\$cro?sub.3 or \$ni\$cro?sub.3 or cu\$cro?sub.3 or \$zn\$cro?sub.3) or (el.u/c. or electrolumines\$) and (\$mg\$mnno?sub.3 or \$ca\$mnno?sub.3 or \$sr\$mnno?sub.3 or \$ba\$mnno?sub.3 or \$li\$mnno?sub.3 or \$na\$mnno?sub.3 or \$k\$mnno?sub.3 or \$rb\$mnno?sub.3 or \$cs\$mnno?sub.3 or \$mg\$cro?sub.3 or \$ca\$cro?sub.3 or \$sr\$cro?sub.3 or \$ba\$cro?sub.3 or \$li\$cro?sub.3 or \$na\$cro?sub.3 or \$k\$cro?sub.3 or \$rb\$cro?sub.3 or \$cs\$cro?sub.3) or (el.u/c. or electrolumines\$) and (\$mg\$alo?sub.3 or \$ca\$alo?sub.3 or \$sr\$alo?sub.3 or \$ba\$alo?sub.3 or \$li\$alo?sub.3 or \$na\$alo?sub.3 or \$k\$alo?sub.3 or \$rb\$alo?sub.3 or \$cs\$alo?sub.3))) and ((\$mnno?sub.3 or cro?sub.3 or \$alo?sub.3) with (alkali\$ earth or ca or calcium or ba or barium or sr or strontium)) </p>				
<p> (((\$mnno?sub.3 or \$cro?sub.3) and (el.u/c. or electroluminesc\$) not ((\$cuo?sub.4 or \$cu?sub.3O.sub.6 or (\$cu?sub.3 o?sub.6)) and (\$luminesc\$ or phosphor or phosphoresc\$ or fluorese\$) or (\$cuo?sub.4 or \$cu?sub.3O.sub.6 or (\$cu?sub.3 o?sub.6)) and (el.u/c. or electroluminesc\$)) not (el.u/c. or electrolumines\$) and (\$ti\$alo?sub.3 or \$v\$alo?sub.3 or \$cr\$alo?sub.3 or </p>	PGPB, USPT	ADJ	YES	08-06-2008

<p> \$mn\$alo?sub.3 or \$fe\$alo?sub.3 or \$co\$alo?sub.3 or \$ni\$alo?sub.3 or \$cu\$alo?sub.3 or \$zn\$alo?sub.3) or (el.u/c. or electrolumines\$) and (\$ti\$mno?sub.3 or \$v\$mno?sub.3 or \$cr\$mno?sub.3 or \$fe\$mno?sub.3 or \$co\$mno?sub.3 or \$ni\$mno?sub.3 or \$cu\$mno?sub.3 or \$zn\$mno?sub.3 or \$ti\$cro?sub.3 or \$v\$cro?sub.3 or \$mn\$cro?sub.3 or \$fe\$cro?sub.3 or \$co\$cro?sub.3 or \$ni\$cro?sub.3 or cu\$cro?sub.3 or \$zn\$cro?sub.3) or (el.u/c. or electrolumines\$) and (\$mg\$mno?sub.3 or \$ca\$mno?sub.3 or \$sr\$mno?sub.3 or \$ba\$mno?sub.3 or \$li\$mno?sub.3 or \$na\$mno?sub.3 or \$k\$mno?sub.3 or \$rb\$mno?sub.3 or \$cs\$mno?sub.3 or \$mg\$cro?sub.3 or \$ca\$cro?sub.3 or \$sr\$cro?sub.3 or \$ba\$cro?sub.3 or \$li\$cro?sub.3 or \$na\$cro?sub.3 or \$k\$cro?sub.3 or \$rb\$cro?sub.3 or \$cs\$cro?sub.3) or (el.u/c. or electrolumines\$) and (\$mg\$alo?sub.3 or \$ca\$alo?sub.3 or \$sr\$alo?sub.3 or \$ba\$alo?sub.3 or \$li\$alo?sub.3 or \$na\$alo?sub.3 or \$k\$alo?sub.3 or \$rb\$alo?sub.3 or \$cs\$alo?sub.3)) or (\$alo?sub.3 and (el.u/c. or electroluminesc\$) not ((c\$uo?sub.4 or \$cu?sub.3O.sub.6 or (\$cu?sub.3 o?sub.6)) and (\$luminesc\$ or phosphor or phosphoresc\$ or fluoresc\$) or (\$cu?sub.4 or \$cu?sub.3O.sub.6 or (\$cu?sub.3 o?sub.6)) and (el.u/c. or electroluminesc\$) or (\$mno?sub.3 or \$cro?sub.3) and (el.u/c. or electroluminesc\$)) not (el.u/c. or electrolumines\$) and (\$ti\$alo?sub.3 or \$v\$alo?sub.3 or \$cr\$alo?sub.3 or \$mn\$alo?sub.3 or \$fe\$alo?sub.3 or \$co\$alo?sub.3 or \$ni\$alo?sub.3 or \$cu\$alo?sub.3 or \$zn\$alo?sub.3) or (el.u/c. or electrolumines\$) and (\$ti\$mno?sub.3 or \$v\$mno?sub.3 or \$cr\$mno?sub.3 or \$fe\$mno?sub.3 or \$co\$mno?sub.3 or \$ni\$mno?sub.3 or \$cu\$mno?sub.3 or \$zn\$mno?sub.3 or \$ti\$cro?sub.3 or \$v\$cro?sub.3 or \$mn\$cro?sub.3 or \$fe\$cro?sub.3 or \$co\$cro?sub.3 or \$ni\$cro?sub.3 or cu\$cro?sub.3 or \$zn\$cro?sub.3) or (el.u/c. or electrolumines\$) and (\$mg\$mno?sub.3 or \$ca\$mno?sub.3 or \$sr\$mno?sub.3 or \$ba\$mno?sub.3 or \$li\$mno?sub.3 or \$na\$mno?sub.3 or \$k\$mno?sub.3 or \$rb\$mno?sub.3 or \$cs\$mno?sub.3 or \$mg\$cro?sub.3 or \$ca\$cro?sub.3 or \$sr\$cro?sub.3 or \$ba\$cro?sub.3 or \$li\$cro?sub.3 or \$na\$cro?sub.3 or \$k\$cro?sub.3 or \$rb\$cro?sub.3 or \$cs\$cro?sub.3) or (el.u/c. or electrolumines\$) and (\$mg\$alo?sub.3 or \$ca\$alo?sub.3 or \$sr\$alo?sub.3 or \$ba\$alo?sub.3 or \$li\$alo?sub.3 or \$na\$alo?sub.3 or \$k\$alo?sub.3 or \$rb\$alo?sub.3 or \$cs\$alo?sub.3))) and ((\$mno?sub.3 or cro?sub.3 or \$alo?sub.3) with (alkali or na or sodium or li or lithium or k or potassium or rb or rubidium or cs! or cesium)) </p>				
<p> (((\$mno?sub.3 or \$cro?sub.3) and (el.u/c. or electroluminesc\$) not ((c\$uo?sub.4 or \$cu?sub.3O.sub.6 or (\$cu?sub.3 o?sub.6)) and (\$luminesc\$ or phosphor or phosphoresc\$ or fluoresc\$) or (\$cu?sub.4 or </p>	PGPB, USPT	ADJ	YES	08-06-2008

\$cu?sub.3O.sub.6 or (\$cu?sub.3 o?sub.6)) and (el.u/c. or electroluminesc\$)) not (el.u/c. or electrolumines\$) and (\$ti\$alo?sub.3 or \$v\$alo?sub.3 or \$cr\$alo?sub.3 or \$mn\$alo?sub.3 or \$fe\$alo?sub.3 or \$co\$alo?sub.3 or \$ni\$alo?sub.3 or \$cu\$alo?sub.3 or \$zn\$alo?sub.3) or (el.u/c. or electroluminesc\$) and (\$ti\$mno?sub.3 or \$v\$mno?sub.3 or \$cr\$mno?sub.3 or \$fe\$mno?sub.3 or \$co\$mno?sub.3 or \$ni\$mno?sub.3 or \$cu\$mno?sub.3 or \$zn\$mno?sub.3 or \$ti\$cro?sub.3 or \$v\$cro?sub.3 or \$mn\$cro?sub.3 or \$fe\$cro?sub.3 or \$co\$cro?sub.3 or \$ni\$cro?sub.3 or cu\$cro?sub.3 or \$zn\$cro?sub.3) or (el.u/c. or electroluminesc\$) and (\$mg\$mno?sub.3 or \$ca\$mno?sub.3 or \$sr\$mno?sub.3 or \$ba\$mno?sub.3 or \$li\$mno?sub.3 or \$na\$mno?sub.3 or \$k\$mno?sub.3 or \$rb\$mno?sub.3 or \$cs\$mno?sub.3 or \$mg\$cro?sub.3 or \$ca\$cro?sub.3 or \$sr\$cro?sub.3 or \$ba\$cro?sub.3 or \$li\$cro?sub.3 or \$na\$cro?sub.3 or \$k\$cro?sub.3 or \$rb\$cro?sub.3 or \$cs\$cro?sub.3) or (el.u/c. or electroluminesc\$) and (\$mg\$alo?sub.3 or \$ca\$alo?sub.3 or \$sr\$alo?sub.3 or \$ba\$alo?sub.3 or \$li\$alo?sub.3 or \$na\$alo?sub.3 or \$k\$alo?sub.3 or \$rb\$alo?sub.3 or \$cs\$alo?sub.3)) or (\$alo?sub.3 and (el.u/c. or electroluminesc\$) not ((\$cuo?sub.4 or \$cu?sub.3O.sub.6 or (\$cu?sub.3 o?sub.6)) and (\$luminesc\$ or phosphor or phosphoresc\$ or fluoresc\$)) or (\$cuo?sub.4 or \$cu?sub.3O.sub.6 or (\$cu?sub.3 o?sub.6)) and (el.u/c. or electroluminesc\$) or (\$mno?sub.3 or \$cro?sub.3) and (el.u/c. or electroluminesc\$)) not (el.u/c. or electroluminesc\$) and (\$ti\$alo?sub.3 or \$v\$alo?sub.3 or \$cr\$alo?sub.3 or \$mn\$alo?sub.3 or \$fe\$alo?sub.3 or \$co\$alo?sub.3 or \$ni\$alo?sub.3 or \$cu\$alo?sub.3 or \$zn\$alo?sub.3) or (el.u/c. or electroluminesc\$) and (\$ti\$mno?sub.3 or \$v\$mno?sub.3 or \$cr\$mno?sub.3 or \$fe\$mno?sub.3 or \$co\$mno?sub.3 or \$ni\$mno?sub.3 or \$cu\$mno?sub.3 or \$zn\$mno?sub.3 or \$ti\$cro?sub.3 or \$v\$cro?sub.3 or \$mn\$cro?sub.3 or \$fe\$cro?sub.3 or \$co\$cro?sub.3 or \$ni\$cro?sub.3 or cu\$cro?sub.3 or \$zn\$cro?sub.3) or (el.u/c. or electroluminesc\$) and (\$mg\$mno?sub.3 or \$ca\$mno?sub.3 or \$sr\$mno?sub.3 or \$ba\$mno?sub.3 or \$li\$mno?sub.3 or \$na\$mno?sub.3 or \$k\$mno?sub.3 or \$rb\$mno?sub.3 or \$cs\$mno?sub.3 or \$mg\$cro?sub.3 or \$ca\$cro?sub.3 or \$sr\$cro?sub.3 or \$ba\$cro?sub.3 or \$li\$cro?sub.3 or \$na\$cro?sub.3 or \$k\$cro?sub.3 or \$rb\$cro?sub.3 or \$cs\$cro?sub.3) or (el.u/c. or electroluminesc\$) and (\$mg\$alo?sub.3 or \$ca\$alo?sub.3 or \$sr\$alo?sub.3 or \$ba\$alo?sub.3 or \$li\$alo?sub.3 or \$na\$alo?sub.3 or \$k\$alo?sub.3 or \$rb\$alo?sub.3 or \$cs\$alo?sub.3)) and ((\$mno?sub.3 or cro?sub.3 or \$alo?sub.3) with (ti or titanium or v or vanadium or cr or chromium or mn or manganese or fe or iron or co or cobalt or ni or nickel or zn! or zinc))

((or) and ((\$mno?sub.3 or cro?sub.3 or \$alo?sub.3) with (ti or titanium or v or vanadium or cr or chromium or mn or manganese or fe or iron or co or cobalt or ni or nickel or zn! or zinc))) not (((or) and ((\$mno?sub.3 or cro?sub.3 or \$alo?sub.3) with (mg or magnesium))) or ((or) and ((\$mno?sub.3 or cro?sub.3 or \$alo?sub.3) with (alkali\$ earth or ca or calcium or ba or barium or sr or strontium))) or ((or) and ((\$mno?sub.3 or cro?sub.3 or \$alo?sub.3) with (alkali or na or sodium or li or lithium or k or potassium or rb or rubidium or cs! or cesium))))	EPAB, JPAB, DWPI	ADJ	YES		08-06-2008
((not or not) and ((\$mno?sub.3 or cro?sub.3 or \$alo?sub.3) with (ti or titanium or v or vanadium or cr or chromium or mn or manganese or fe or iron or co or cobalt or ni or nickel or zn! or zinc))) and ((((\$mno?sub.3 or cro?sub.3 or \$alo?sub.3) with (ti or titanium or v or vanadium or cr or chromium or mn or manganese or fe or iron or co or cobalt or ni or nickel or zn! or zinc)) same (\$lumines\$ or light\$lemit\$ or (light emit\$) or phosphor or phosphoresc\$ or fluoresc\$))	EPAB, JPAB, DWPI	ADJ	YES		08-06-2008
((not (or) not or or or not (or or) not or or or) and ((\$mno?sub.3 or cro?sub.3 or \$alo?sub.3) with (ti or titanium or v or vanadium or cr or chromium or mn or manganese or fe or iron or co or cobalt or ni or nickel or zn! or zinc))) not (((not (or) not or or or not (or or) not or or or) and ((\$mno?sub.3 or cro?sub.3 or \$alo?sub.3) with (mg or magnesium))) or ((not (or) not or or or not (or or) not or or or) and ((\$mno?sub.3 or cro?sub.3 or \$alo?sub.3) with (alkali\$ earth or ca or calcium or ba or barium or sr or strontium))) or ((not (or) not or or or not (or or) not or or or) and ((\$mno?sub.3 or cro?sub.3 or \$alo?sub.3) with (alkali or na or sodium or li or lithium or k or potassium or rb or rubidium or cs! or cesium))))	PGPB, USPT	ADJ	YES		08-06-2008
((not (or) not or or or not (or or) not or or or) and ((\$mno?sub.3 or cro?sub.3 or \$alo?sub.3) with (ti or titanium or v or vanadium or cr or chromium or mn or manganese or fe or iron or co or cobalt or ni or nickel or zn! or zinc)) not ((not (or) not or or or not (or or) not or or or) and ((\$mno?sub.3 or cro?sub.3 or \$alo?sub.3) with (mg or magnesium)) or (not (or) not or or or not (or or) not or or or) and ((\$mno?sub.3 or cro?sub.3 or \$alo?sub.3) with (alkali\$ earth or ca or calcium or ba or barium or sr or strontium)) or (not (or) not or or or not (or or) not or or or) and ((\$mno?sub.3 or cro?sub.3 or \$alo?sub.3) with (alkali or na or sodium or li or lithium or k or potassium or rb or rubidium or cs! or cesium)))) and ((((\$mno?sub.3 or cro?sub.3 or \$alo?sub.3) with (ti or titanium or v or vanadium or cr or chromium or mn or manganese or fe or iron or co or cobalt or ni or nickel or zn! or zinc)) same (\$lumines\$ or light\$lemit\$ or (light emit\$) or phosphor or	PGPB, USPT	ADJ	YES		08-06-2008

fluoresc\$ or phosphoresc\$))						
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